CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.04/LLR/CSR-06/062c/CEMENT/2016-17 Date: 11.06.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer**, Yelahanka New Town Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. L. Lokanatha Reddy,** No.5, 1st H Main Road, 7th B Cross Road, Kaveri Nagara B Block, Kaval Byrasandra, Bangalore.
*NAME OF THE WORK	:	Construction of office 1st Floor and building and ground floor of library building beside BBMP office in Ward No.04 of Yelahanka New Town Sub Division, BBMP, Bangalore.
*REFERENCE	:	BBMP/AEE/YNSD/78/2016-17 Dated: 10.06.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	10.06.2016
PERIOD OF TESTING	:	10.06.2016 to 11.06.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Ram Sanjeev AE 14/6

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Job No.: CTCE/BBMP/W.No.04/LLR/CSR-06/062c/SAND-Gradation/2016-17 : 11.06.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer : **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.

* Agency : **Mr. L. Lokanatha Reddy,** No.5, 1st H Main Road, 7th B Cross Road, Kaveri Nagara B Block, Kaval Byrasandra, Bangalore.

* Name of Work : Construction of office 1st Floor and building and ground floor of library building beside BBMP office in Ward No.04 of Yelahanka New Town Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/YNSD/78/2016-17 Dated: 10.06.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 10.06.2016

Date of Testing : 11.06.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	95.40	90-100	90-100	90-100	95-100
2.36	76.40	60-95	75-100	85-100	95-100
1.18	54.90	30-70	55-90	75-100	90-100
600 Micron	26.90	15-34	35-59	60-79	80-100
300 Micron	11.90	5-20	8-30	12-40	15-50
150 Micron	7.90	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.04/LLR/CSR-06/062c/AGG/GR/2016-17 : 11.06.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Mr. L. Lokanatha Reddy,** No.5, 1st H Main Road, 7th B Cross Road, Kaveri Nagara B Block, Kaval Byrasandra, Bangalore.
* Name of Work	: Construction of office 1st Floor and building and ground floor of library building beside BBMP office in Ward No.04 of Yelahanka New Town Sub Division, BBMP, Bangalore.
* Reference	: BBMP/AEE/YNSD/78/2016-17 Dated: 10.06.2016
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (20mm)
Sample Received on	:10.06.2016
Date of Testing	: 11.06.2016

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2007)	
		Graded	Single Sized
40	100	100	100
20	96.40	95-100	85-100
10	40.40	25-55	0-20
4.75	4.40	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/W.No 04/LLR /STEEL/2016-17 13.06.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer**, Yelahanka New Town Sub Division, BBMP, Bangalore.
Agency	:	**Mr. L. Lokanatha Reddy,** No.5, 1st H Main Road, 7th B Cross Road, Kaveri Nagara B Block, Kaval Byrasandra, Bangalore.
Name of the Work	:	Construction of office 1st Floor and building and ground floor of library building beside BBMP office in Ward . No.04 of Yelahanka New Town Sub Division, BBMP, Bangalore.
Reference	:	BBMP/AEE/YNSD/78/2016-17 Dated: 10.06.2016
Date of Test	:	13.06.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	8	0.40	510	552	13.05	O.K	O.K

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Job No.: CTCE/BBMP/W.No.04/LLR /STEEL/2016-17 13.06.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer**, Yelahanka New Town Sub Division, BBMP, Bangalore.
Agency	:	**Mr. L. Lokanatha Reddy,** No.5, 1st H Main Road, 7th B Cross Road, Kaveri Nagara B Block, Kaval Byrasandra, Bangalore.
Name of the Work	:	Construction of office 1st Floor and building and ground floor of library building beside BBMP office in Ward . No.04 of Yelahanka New Town Sub Division, BBMP, Bangalore.
Reference	:	BBMP/AEE/YNSD/78/2016-17 Dated: 10.06.2016
Date of Test	:	13.06.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	513	556	13.20	O.K	O.K

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Job No.: CTCE/BBMP/W.No.04/LLR /STEEL/2016-17 13.06.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer**, Yelahanka New Town Sub Division, BBMP, Bangalore.
Agency	:	**Mr. L. Lokanatha Reddy,** No.5, 1st H Main Road, 7th B Cross Road, Kaveri Nagara B Block, Kaval Byrasandra, Bangalore.
Name of the Work	:	Construction of office 1st Floor and building and ground floor of library building beside BBMP office in Ward . No.04 of Yelahanka New Town Sub Division, BBMP, Bangalore.
Reference	:	BBMP/AEE/YNSD/78/2016-17 Dated: 10.06.2016
Date of Test	:	13.06.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	12	0.89	515	558	13.35	O.K	O.K

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Job No.: CTCE/BBMP/W.No.04/LLR /STEEL/2016-17 13.06.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer**, Yelahanka New Town Sub Division, BBMP, Bangalore.
Agency	:	**Mr. L. Lokanatha Reddy,** No.5, 1st H Main Road, 7th B Cross Road, Kaveri Nagara B Block, Kaval Byrasandra, Bangalore.
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Reference	:	BBMP/AEE/YNSD/78/2016-17 Dated: 10.06.2016
Date of Test	:	13.06.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	16	1.58	520	563	13.50	O.K	O.K

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T-2377

Job No.: CTCE/BBMP/W.No.04/LLR/CSR-06/062c/CC Solid Block/2016-17 : 13.06.2016

TEST REPORT ON SOLID CONCRETE BLOCKS

* Customer	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Mr. L. Lokanatha Reddy,** No.5, 1st H Main Road, 7th B Cross Road, Kaveri Nagara B Block, Kaval Byrasandra, Bangalore.
* Name of the Work	: Construction of office 1st Floor and building and ground floor of library building beside BBMP office in Ward No.04 of Yelahanka New Town Sub Division, BBMP, Bangalore.
Reference	: BBMP/AEE/YNSD/78/2016-17 Dated: 10.06.2016
Sample Received on	: 10.06.2016
Date of Testing	: 13.06.2016
Size of Blocks	: 400mm x 200mm x 200mm
Cross Sectional Area	: 80000 mm^2
Technical Reference	: IS: 2185 (Part 1) - 2005
No. of Blocks Tested	: 08

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	34.52	259.3	3.24	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
2	Block 2	35.15	260.5	3.26	
3	Block 3	34.26	262.2	3.28	
4	Block 4	34.36	263.1	3.29	
5	Block 5	35.12	259.8	3.25	
6	Block 6	35.15	260.5	3.26	
7	Block 7	34.18	261.3	3.27	
8	Block 8	35.19	257.6	3.22	

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Job No.: CTCE/BBMP/W.No.04/LLR/CSR-06/062c/CUBE/2016-17 07.07.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer : **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.

* Agency : **Mr. L. Lokanatha Reddy,** No.5, 1st H Main Road, 7th B Cross Road, Kaveri Nagara B Block, Kaval Byrasandra, Bangalore.

* Name of the work : Construction of office 1st Floor and building and ground floor of library building beside BBMP office in Ward No.04 of Yelahanka New Town Sub Division, BBMP, Bangalore.

* Reference : BBMP/AEE/YNSD/78/2016-17 Dated: 10.06.2016

* Sample ID : Beam & Roof Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 07.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.06.2016	07.07.2016	8.259	336.6	14.96
2	30.06.2016	07.07.2016	8.358	345.5	15.36
3	30.06.2016	07.07.2016	8.478	359.6	15.98

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Job No.: CTCE/BBMP/W.No.04/LLR/CSR-06/062c/CUBE/2016-17 27.06.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Mr. L. Lokanatha Reddy,** No.5, 1st H Main Road, 7th B Cross Road, Kaveri Nagara B Block, Kaval Byrasandra, Bangalore.
* Name of the work	: Construction of office 1st Floor and building and ground floor of library building beside BBMP office in Ward No.04 of Yelahanka New Town Sub Division, BBMP, Bangalore.
* Reference	: BBMP/AEE/YNSD/78/2016-17 Dated: 10.06.2016
* Sample ID	: Lintel & Chejja Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day
Sample Received on	: 27.06.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.06.2016	27.06.2016	8.110	353.6	15.72
2	20.06.2016	27.06.2016	8.287	365.6	16.25
3	20.06.2016	27.06.2016	8.315	370.2	16.45

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